

Please type a plus sign (+) inside this box → +

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of

5

Application Number

10/784,904

Filing Date

February 23, 2004

First Named Inventor

Ma, et al.

Group Art Unit

Unknown 2823

Examiner Name

Unknown William M. Brewster

Attorney Docket Number

AMAT/8830/FEP/PCVD/PJS

Submission Date

March 31, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
9VB	A1	US-6645838	11/11/2003	Talwar, et al.	X
9VB	A2	US-6635588	10/21/2003	Hawryluk, et al.	
9VB	A3	US-6559520	05/06/2003	Matsuki, et al.	
9VB	A4	US-6544900	04/08/2003	Raaijmakers, et al.	
9VB	A5	US-6458718	10/01/2002	Todd	
9VB	A6	US-6410463	06/25/2002	Matsuki	
9VB	A7	US-6387761	05/14/2002	Shih, et al.	
9VB	A8	US-6383956	05/07/2002	Hawryluk, et al.	
9VB	A9	US-6383955	05/07/2002	Matsuki, et al.	
9VB	A10	US-6358829	03/19/2002	Yoon, et al.	
9VB	A11	US-6352945	03/05/2002	Matsuki, et al.	
9VB	A12	US-6348420	02/19/2002	Raaijmakers, et al.	
9VB	A13	US-6303476	10/16/2001	Hawryluk, et al.	
9VB	A14	US-6284686	09/04/2001	Marlor	
9VB	A15	US-6232196	05/15/2001	Raaijmakers, et al.	
9VB	A16	US-6025627	02/15/2000	Forbes, et al.	
9VB	A17	US-5908307	06/01/1999	Talwar, et al.	
9VB	A18	US-5807792	09/15/1998	Ilg, et al.	X

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
9VB	B1	WO 02/097864	12/05/2002	ASM America, Inc.	X	X
9VB	B2	WO 02/080244	10/10/2002	ASM America, Inc.		
9VB	B3	WO 02/065525	08/22/2002	ASM America, Inc.		
9VB	B4	WO 02/065517	08/22/2002	ASM America, Inc.		
9VB	B5	WO 02/065516	08/22/2002	ASM America, Inc.	X	X

Examiner

William M. Brewster

Date Considered

29 SEP 05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * Applicant's unique citation designation number (optional). † See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ‡ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). § For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ¶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. • Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Please type a plus sign (+) inside this box → +

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of

5

Application Number

10/784,904

Filing Date

February 23, 2004

First Named Inventor

Ma, et al.

Group Art Unit

Unknown 2823

Examiner Name

Unknown William M. Brewster

Attorney Docket Number

AMAT/8830/FEP/PCVD/PJS

Submission Date

March 31, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
QVB	A19	US-5796116	08/18/1998	Nakata, et al.	
QVB	A20	US-5693139	12/02/1997	Nishizawa, et al.	
QVB	A21	US-5674304	10/07/1997	Fukada, et al.	
QVB	A22	US-5527733	06/18/1996	Nishizawa, et al.	
QVB	A23	US-5480818	01/02/1996	Matsumoto, et al.	
QVB	A24	US-5469806	11/28/1995	Mochizuki, et al.	
QVB	A25	US-5374570	12/20/1994	Nasu, et al.	
QVB	A26	US-5372860	12/13/1994	Fehlner, et al.	
QVB	A27	US-5294286	03/15/1994	Nishizawa, et al.	
QVB	A28	US-4834831	05/30/1989	Nishizawa, et al.	
QVB	A29	US-20030082300	05/01/2003	Todd, et al.	
QVB	A30	US-20030045074	03/06/2003	Seibel, et al.	
QVB	A31	US-20030036268	02/20/2003	Brabant, et al.	
QVB	A32	US-20030022528	01/30/2003	Todd	
QVB	A33	US-20020197831	12/26/2002	Todd, et al.	
QVB	A34	US-20020173130	11/21/2002	Pomerode, et al.	
QVB	A35	US-20020173113	11/21/2002	Todd	
QVB	A36	US-20020168868	11/14/2002	Todd	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ² -Number ² -Kind Code ² (if known)				
QVB	B6	WO 02/065508	08/22/2002	ASM America, Inc.	X	X
QVB	B7	WO 02/064853	08/22/2002	ASM America, Inc.		
QVB	B8	WO 01/41544	06/14/2001	ASM America, Inc.		
QVB	B9	WO 98/20524	05/14/1998	Pacific Solar Pty. Limited		
QVB	B10	JP 63-062313 (Abstract Only)	03/18/1988	Fujitsu, Ltd.	X	X

Examiner *William M. Brewster*

Date Considered *29 Nov 05*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

APR 05 2004

Use a plus sign (+) inside this box



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APR 05 2004 (Use as many sheets as necessary)

Sheet

of

5

Application Number

10/784,904

Filing Date

February 23, 2004

First Named Inventor

Ma, et al.

Group Art Unit

Unknown 2823

Examiner Name

Unknown William M. Browster

Attorney Docket Number

AMAT/8830/FEP/PCVD/PJS

Submission Date

March 31, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
WB	A37	US-20020093042	07/18/2002	Oh, et al.	X
WB	A38	US-20020022294	02/21/2002	Hawryluk, et al.	
WB	A39	US-20020019148	02/14/2002	Hawryluk, et al.	
WB	A40	US-20010055672	12/27/2001	Todd	
WB	A41	US-20010046567	11/29/2001	Matsuki, et al.	
WB	A42	US-20010024871	09/27/2001	Yagi	
WB	A43	US-20010020712	09/13/2001	Raaijmakers, et al.	
	A44	US-			
	A45	US-			
	A46	US-			
	A47	US-			
	A48	US-			
	A49	US-			
	A50	US-			
	A51	US-			
	A52	US-			
	A53	US-			
	A54	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
WB	B11	JP 62-171999 (Abstract Only)	07/28/1987	Nippon Telegr & Teleph Corp.	X	X
WB	B12	JP 58-098917 (Abstract Only)	06/10/1983	Matsushita Denki Sangyo KK		
WB	B13	JP 2001-189312 (Abstract Only)	05/02/2001	Motorola, Inc.		
WB	B14	JP 2001-111000	04/20/2001			
WB	B15	JP 05-102189 (Abstract Only)	04/23/1993	Fujitsu, Ltd.	X	X

Examiner

William M. Browster

Date Considered

29 SEP 05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4

of

5

Application Number

10/784,904

Filing Date

February 23, 2004

First Named Inventor

Ma, et al.

Group Art Unit

unknown 2823

Examiner Name

unknown William M. Brewster

Attorney Docket Number

AMAT/8830/FEP/PCVD/PJS

Submission Date

March 31, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A55	US-			
	A56	US-			
	A57	US-			
	A58	US-			
	A59	US-			
	A60	US-			
	A61	US-			
	A62	US-			
	A63	US-			
	A64	US-			
	A65	US-			
	A66	US-			
	A67	US-			
	A68	US-			
	A69	US-			
	A70	US-			
	A71	US-			
	A72	US-			

A73

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
WB	B16	JP 05-047665 (Abstract Only)	02/26/1993	Fujitsu, Ltd.	X	X
WB	B17	JP 03-286522 (Abstract Only)	12/17/1991	NEC Corp.	1	1
WB	B18	JP 02-172895 (Abstract Only)	07/04/1993	NEC Corp	1	1
WB	B19	JP 01-270593 (Abstract Only)	10/27/1989	Fujitsu, Ltd.		
WB	B20	EP 1 150 345	10/31/2001	ASM Japan K.K.	X	X

Examiner

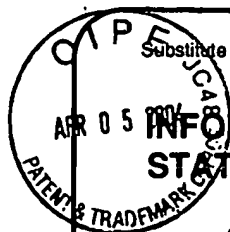
William M. Brewster

Date Considered

29 SEPT 05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * Applicant's unique citation designation number (optional). * See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5

of

5

Application Number

10/784,904

Filing Date

February 23, 2004

First Named Inventor

Ma, et al.

Group Art Unit

Unknown 2823

Examiner Name

Unknown William M. Brewster

Attorney Docket Number

AMAT/8830/FEP/PCVD/PJS

Submission Date

March 31, 2004

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
W/B	1	Choi, <i>et al.</i> "Stability of TiB ₂ as a Diffusion Barrier on Silicon," J. Electrochem. Soc., Vol. 138, No. 10, October 1991	+
W/B	2	Debusschere, <i>et al.</i> "Importance of determining the polysilicon dopant profile during process development," J. Vac. Sci. Technol. B 14(1), Jan/Feb 1996	↑
W/B	3	Earles, <i>et al.</i> "Nonmelt Laser Annealing of 5-KeV and 1-KeV Boron-Implanted Silicon," IEEE Transactions on Electron Devices, Vol. 49, No. 7, July 2002	
W/B	4	Jeong, <i>et al.</i> "Growth and Characterization of Aluminum Oxide Al ₂ O ₃ Thin Films by Plasma-assisted Atomic Layer Controlled Deposition," J. Korean Inst. Met. Mater., Vol. 38, No. 10, Oct. 2000	
W/B	5	Jeong, <i>et al.</i> "Plasma-assisted Atomic Layer Growth of High-Quality Aluminum Oxide Thin Films," Jpn. J. Appl. Phys. 1, Regul. Pap. Short Notes, Vol. 40, No. 1, Jan 2001	
W/B	6	Lee, <i>et al.</i> "Cyclic Technique for the Enhancement of Highly Oriented Diamond Film Growth," Thin Solid Films 303 (1997) 264-269	
W/B	7	Paranjpe, <i>et al.</i> "Atomic Layer Deposition of AlO _x for Thin Film Head Gap Applications," J. Electrochem. Soc., Vol. 148, No. 9, Sep. 2001	
W/B	8	Talwar, <i>et al.</i> "Junction sealing using lasers for thermal annealing," Solid State Technology, Vol. 46, Issue 7, July 2003	
W/B	9	Yamshita, <i>et al.</i> "Kinetics of Boron Activation by Flash Lamp Annealing," Extend Abstracts of the 2003 International Conference of Solid State Devices and Materials, Tokyo, 2003, pp. 742-743	+
	10		
	11		

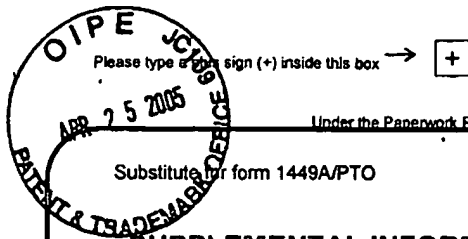
Examiner

William M. Brewster

Date Considered 29 SEPT 05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT BY
APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 1

Application Number	10/784,904
Filing Date	February 23, 2004
First Named Inventor	Ma, et al.
Group Art Unit	2812 2823
Examiner Name	Unknown William M. Brewster
Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
Submission Date	April 22, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
QNB	A1	US-6451119 B2	09/17/2002	SNEH, ET AL.	X
QNB	A2	US-6335280 B1	01/01/2002	VAN DER JEUGD	
QNB	A3	US-6291319 B1	09/18/2001	YU, ET AL.	
QNB	A4	US-20050079691 A1	04/14/2005	KIM, ET AL.	
QNB	A5	US-20030189208 A1	10/09/2003	LAW, ET AL.	
QNB	A6	US-20020145168 A1	10/10/2002	BOJARCZUK, JR., ET AL.	X
	A7				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1					

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
QNB	C1	International Search Report mailed February 22, 2005 for PCT/US2004/030872 (AMAT/8539-PCT)	X
QNB	C2	Kamins, et al. "Kinetics of selective epitaxial deposition of Si _{1-x} Ge _x ", Applied Physics Letters, American Institute of Physics. New York, US, vol. 61, no. 6, 10 August 1992, pp. 669-671	
QNB	C3	Menon, et al. "Loading effect in SiGe layers grown by dichlorosilane- and silane-based epitaxy", Journal of Applied Physics, American Institute of Physics. New York, US, vol. 90, no. 9, 1 November 2001, pp. 4805-4809	
QNB	C4	Sedgwick, et al. "Selective SiGe and heavily As doped Si deposited at low temperature by atmospheric pressure chemical vapor deposition", Journal of Vacuum Science and Technology: Part B, American Institute of Physics. New York, US, vol. 11, no. 3, 1 May 1993, pp. 1124-1128	
QNB	C5	Uchino, et al. "A Raised Source/Drain Technology Using In-situ P-doped SiGe and B-doped Si for 0.1 μm CMOS ULSis", Electron Devices Meeting, 1997. Technical Digest, International Washington, DC, USA 7-10 Dec. 1991, New York, NY, USA, IEEE, US, 7 December 1997, pp. 479-482	X

Examiner

William M. Brewster

Date Considered

29 SEP 05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

+

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

10/784,904

February 23, 2004

Ma, et al.

2842 2823

Unknown William M. Brewster

AMAT/8830/FEP/PCVD/PJS

June 16, 2005

Sheet | 1

of 1

(Use as many sheets as necessary)

Sheet | 1

[illegible]

William M. Brewster

29 SEPT 85

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT BY
APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 1

Application Number	10/784,904
Filing Date	February 23, 2004
First Named Inventor	Ma, et al.
Group Art Unit	2812-2823
Examiner Name	William M. Brewster
Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
Submission Date	July 22, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
WB	A1	US-6100171	08/08/2000	Ishida	X
WB	A2	US-5966605	10/12/1999	Ishida	X
WB	A3	US-5399506	03/21/1995	Tsukamoto	X
	A4				
	A5				
	A6				
	A7				
	A8				
	A9				
	A10				
	A11				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
WB	B1	WO 01/71787 A1	09/27/2001	Varian Semiconductor Equipment Associates, Inc.	X	X
	B2					
	B3					
	B4					

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
WB	C1	International Search Report dated June 23, 2005 regarding International Application No. PCT/US2005/004318 (AMAT/8830-PCT)	X
WB	C2	Goto, et al. "Ultra-Low Contact Resistance for Deca-nm MOSFETs by Laser Annealing", Electron Devices Meeting, 1999. IEDM Technical Digest. International Washington, DC, USA 5-8 Dec. 1999, Piscataway, NJ, USA, IEEE, US, 5 December 1999 (1999-12-02), pp. 931-933, XP010372208	X

Examiner

William M. Brewster

Date Considered

29 SEP 05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.